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DATE MAILED: 08/03/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

52349 7590 08/03/2009 WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East

Washington, DC 20005-1503

EXAMINER

MANDEVILLE, JASON M

ART UNIT PAPER NUMBER

2629

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/559,728	12/07/2005	Kunihiro Mima	2005_1840A	1832	
TITLE OF INVENTION: METHOD FOR DRIVING PLASMA DISPLAY PANEL					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the ISSI ig the Patent, advance of nerwise in Block 1, by (rders and notification of r a) specifying a new corres	naintenance fees wil pondence address; a	I be mailed to the current nd/or (b) indicating a sep	should be completed where t correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
52349 7590 080382009 WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East				Dertificate of maling of unimassion. Certificate Mailing of Transmission I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FIEE address above, or being facsimile transmitted to the USPIO (27) 1273-2888, on the date indicated between the Computer Comput			
Washington, DC	20005-1503					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/559,728	12/07/2005		Kunihiro Mima		2005_1840A	1832	
TITLE OF INVENTION					-		
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I			
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/03/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
MANDEVILL		2629	345-060000				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address for Change of Correspondence Address form PIOSB/122) authorized to Change of Correspondence Address form PIOSB/123 justice and Correspondence Address form PIOSB/142 justice and Correspondence Address form Les Address form			2. For printing on the patent front page, list (1) the annes of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agent. If no name is listed, no name with be prained.				
(A) NAME OF ASSIG	SNEE		(B) RESIDENCE: (CITY	and STATE OR CO	UNTRY)	ocument has been filed for	
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 i	s attached.	shown above) eficiency, or credit any an extra copy of this form).	
	s SMALL ENTITY state	as. See 37 CFR 1.27.			ENTITY status. Sec 37 C		
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than t k Office.	he applicant; a registe	ered attorney or agent; or t	he assignee or other party in	
Authorized Signature				Date			
Typed or printed name			Registration No.				
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv the Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Ti D THIS ADDRESS:	public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450,	

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10/559,728	12/07/2005	Kunihiro Mima	2005_1840A	1832
52349 75	90 08/03/2009		EXAM	UNER
WENDEROTH,	LIND & PONACK I	MANDEVILLE, JASON M		
1030 15th Street, N	I.W.	ART UNIT	PAPER NUMBER	
Suite 400 East		2620		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 391 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 391 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/559,728	MIMA ET AL.	
Examiner	Art Unit	
IASON M. MANDEVILLE	2620	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 01 May 2009.
- 2. The allowed claim(s) is/are 1, 3, and 4 (now renumbered Claims 1, 3, and 2).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date ______

 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 24 May 2004. It is noted, however, that applicant has not filed a certified copy of the Japanese application as required by 35 U.S.C. 119(b).
 While the applicant has filed a translation of the foreign priority document (received 01 May 2009) and the applicant has filed a non-English version of the specification (dated 07 December 2005), none of these documents constitute a certified copy of the foreign priority document as required by 35 U.S.C. 119(b).

Allowable Subject Matter

- 2. Claims 1, 3, and 4 (now renumbered Claims 1, 3, and 2) are allowed.
- 3. The following is an examiner's statement of reasons for allowance: none of the references relied upon by the examiner, considered alone or in combination, teach or fairly suggest the combined limitations of independent Claims 1 and 3. In particular, as pertaining to Claim 1, none of the references relied upon by the examiner teach or fairly

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suggest "a method for driving a plasma display panel... said method for driving the plasma display panel comprising: generating, during a sustain period, a sustain discharge by alternately applying sustain pulses to the scan electrode and sustain electrode of the discharge cell, wherein a rise time of a sustain pulse applied to the scan electrode during the sustain period is shortened at a frequency of once every three times a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the scan electrode has a shortest rise time from among the sustain pulses applied to the scan electrode during the sustain period, wherein a rise time of a sustain pulse applied to the sustain electrode during the sustain period is shortened at a frequency of once every three times a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the sustain electrode has a shortest rise time from among the sustain pulses applied to the sustain electrode during the sustain period, wherein sustain pulses, applied to the scan electrode and the sustain electrode between the sustain pulses having the shortened rise time, have a non-shortened rise time that is longer than the shortened rise time, wherein a rise time of each of the sustain pulses having the non-shortened rise time is the same, and wherein a plurality of sustain pulses having the shortened rise time are applied to the scan electrode and the sustain electrode during the sustain period." Similarly, as pertaining to Claim 3, none of the references relied upon by the examiner teach or fairly suggest "a method for driving a plasma display panel... said method for driving the plasma display panel comprising: generating, during a sustain period, a sustain discharge by alternately applying sustain pulses to the scan electrode and

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sustain electrode of the discharge cell, wherein a rise time of a sustain pulse applied to the scan electrode during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the scan electrode has a shortest rise time from among the sustain pulses applied to the scan electrode during the sustain period, wherein a rise time of a sustain pulse applied to the sustain electrode during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times, a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the sustain electrode has a shortest rise time from among the sustain pulses applied to the sustain electrode during the sustain period, wherein sustain pulses, applied to the scan electrode and the sustain electrode between the sustain pulses having the shortened rise time, have a non-shortened rise time that is longer than the shortened rise time, wherein a rise time of each of the sustain pulses having the non-shortened rise time is the same, and wherein a plurality of sustain pulses having the shortened rise time are applied to the scan electrode and the sustain electrode during the sustain period."

Of the references relied upon by the examiner, Kojima (JP-2003-323150) discloses (see Fig. 1 and Fig. 2) a method for driving a plasma display panel (10), the method for driving the plasma display panel (10) comprising: generating, during a sustain period (i.e., a sustaining period; see Abstract and Para. [0032]-[0035] along with Fig. 3 and Fig. 4 through Fig. 7), a sustain discharge by alternately applying sustain pulses (31, 32) to the scan electrode (17Y) and sustain electrode (17X) of the discharge

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cell, wherein a rise time of a sustain pulse (31, 32) applied to the scan electrode (17Y) during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times a sustain pulse (31, 32) is applied thereto (again, see Fig. 4 through Fig. 7), wherein a rise time of a sustain pulse (31, 32) applied to the sustain electrode (17X) during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times a sustain pulse (31, 32) is applied thereto (again, see Fig. 4 through Fig. 7), wherein sustain pulses (31, 32), applied to the scan electrode (17Y) and the sustain electrode (17X) between the sustain pulses (31, 32) having the shortened rise time, have a non-shortened rise time that is longer than the shortened rise time (i.e., any of the sustain pulses shown in Fig. 4 through Fig. 7 can be called the sustain pulse with the shortened rise time and any of the sustain pulses shown in Fig. 4 through Fig. 7 can be called the sustain pulse with the non-shortened rise time).

However, while the repetition of sustain pulses is implicit in the teachings of Kojima, nothing in the teachings of Kojima, taken alone or in combination with any of the references considered by the examiner, disclose or fairly suggest the driving method claimed by the applicant. That is, none of the references relied upon by the examiner teach or fairly suggest that a rise time of a sustain pulse applied to the scan electrode during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the scan electrode has a shortest rise time from among the sustain pulses applied to the scan electrode during the sustain

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period, wherein a rise time of a sustain pulse applied to the sustain electrode during the sustain period is shortened at a frequency of one of (i) once every two times and (ii) once every three times, a sustain pulse is applied thereto, wherein the sustain pulse having the shortened rise time that is applied to the sustain electrode has a shortest rise time from among the sustain pulses applied to the sustain electrode during the sustain period, wherein sustain pulses, applied to the scan electrode and the sustain electrode between the sustain pulses having the shortened rise time, have a non-shortened rise time that is longer than the shortened rise time, wherein a rise time of each of the sustain pulses having the non-shortened rise time is the same, and wherein a plurality of sustain pulses having the shortened rise time are applied to the scan electrode and the sustain electrode during the sustain period.

The limitations claimed by the applicant appear to go beyond the teachings of Kojima and claim a specific implementation of shortened and non-shortened rise times for sustain pulses applied to scan and sustain electrodes during a sustain period that is not disclosed by Kojima or any other reference considered by the examiner. While the teachings of Kojima explicitly show an implementation of shortened and non-shortened rise times, and the teachings of Kojima may suggest repeating a pattern of shortened and non-shortened rise times for sustain pulses at a given frequency, nothing in the teachings of Kojima or in the other references considered by the examiner suggest the specific implementation of a sustain pulse having a shortened rise time that is repeated at a frequency of once every two or once every three sustain pulses interspersed with

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sustain pulses having the same non-shortened rise time as claimed by the applicant.

Therefore, Claims 1, 3, and 4 (now renumbered Claims 1, 3, and 2) are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON M. MANDEVILLE whose telephone number is 571-270-3136. The examiner can normally be reached on Monday through Friday 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Eisen can be reached on 571-272-7687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason Mandeville Examiner Art Unit 2629

/J. M. M./ Examiner, Art Unit 2629

> /Alexander Eisen/ Supervisory Patent Examiner, Art Unit 2629